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Control device of the moving-component actuator type keeping its orientation in the course of movement

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Abstract of FR2706075

1 - Control device of the electrostatic actuator type consisting of at least two fixed components (10; 20) opposite each other supporting one or more electrodes, at least one of these electrodes comprising a flat part covered by at least one dielectric layer (16; 18) at least on its face which is opposite the other fixed part, at least one of the electrodes further comprising a moving rigid flat part (13) able to switch between two rest positions, one of which is parallel to and in proximity to the opposing electrode, or even to its contact, characterised in that the said rigid flat part (13) is linked to the fixed part on which it depends (10) by at least two pairs of lugs (14) acting as springs, arranged symmetrically on two opposed lateral edges of the moving flat part (13), one of the ends of each of the lugs being secured to the fixed part (10) while the other end is secured to the moving part (13), the lugs (14) situated on the same lateral edge being derived from one another by translation.

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Description of FR2706075

La presente invention concerne un dispositif de commande de type actionneur electrostatique permettant de realiser des commutations d'au moins une piece mobile entre deux positions de repos pour etablir ou couper des liaisons.

Selon une application bien connue, lorsque les liaisons en question sont electriques, ces dispositifs servent de relais. Cependant, il est egalement possible d'appliquer un tel dispositif a un faisceau lumineux, le changement de position modifiant les caracteristiques de propagation du rayon. Il s'agit alors d'un commutateur optique.